

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/804,607	03/12/2001	Darrel D. Cherry	10007622-1	3150

7590 07/15/2004

HEWLETT-PACKARD COMPANY  
Intellectual Property Administration  
P.O. Box 272400  
Fort Collins, CO 80527-2400

EXAMINER
----------

LEZAK, ARRIENNE M

ART UNIT	PAPER NUMBER
----------	--------------

2143

DATE MAILED: 07/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/804,607

Applicant(s)

CHERRY, DARREL D.

Examiner

Arrienne M. Lezak

Art Unit

2143

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 March 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 1/21/03
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Examiner finds the claim as written to be confusing in that it is unclear as to whether it is the PDA that performs the functions of "providing printer information...to the intranet", "retrieving print information...at the network printer" and "communicating the print information...to print the document". Examiner's interpretation and suggested amendment of Applicant's claim is indicated parenthetically below:

- (the PDA) providing (stored) printer information and information corresponding to a document to be printed, to the intranet;
- (the PDA) retrieving print information (from the intranet) corresponding to the document to be printed at the network printer; and
- (the PDA) communicating the print information to the network printer such that the network printer prints the document.

### ***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over extensive consideration of US Patent Pub. No. US 2002/0018234 A1 to Fu.

5. Regarding Claims 1, 10, 17 & 19, Fu discloses a method, system and computer-readable medium for remotely printing a document, (Fig.1), said method comprising the steps of:

- enabling retrieval of printer information corresponding to a network printer, the network printer being configured to communicatively couple with the Internet, the printer information including an IP address associated with the network printer, (Fig. 1-5 and paragraphs #0021-0045), (Examiner notes that on the Internet, a remote printer would obviously be identified and accessed through an IP address);
- enabling identification of a document to be printed, print information corresponding to the document being stored at a location remote from the network printer, (Fig. 1 & paragraph #0025); and
- facilitating printing of the document at the network printer by communicating information to the network printer via the Internet, (Fig. 1 & paragraph #0022-0029).

Thus, Claims 1, 10, 17 & 19 are unpatentable over extensive consideration of the teachings of Fu.

6. Regarding Claims 2-4, 6, 11, 13, 15 & 18, Fu discloses a method, system and computer-readable medium for remotely printing a document, (Fig.1), wherein the step

of enabling identification of a document, (per pending Claims 2, 11, 13 & 18), comprises the steps of:

- communicatively coupling a personal digital assistant (PDA) to an intranet, the intranet providing access to print information corresponding to documents available for printing, (Figs. 1-5 & paragraphs #0021-0054) ;
- receiving document reference information corresponding to each document available for printing, (Figs. 1-5 & paragraphs #0021-0054), (Examiner notes that as Fu teaches the transmission of document print information generally to a PDA, and as a PDA is capable of displaying a list of documents available for printing, it would have been obvious to transmit document information pertaining to more than one document for display on the PDA);
- storing document reference information with the PDA, (Figs. 1-5 & paragraphs #0021-0054), (Examiner notes that as a PDA has a memory/storage capability, storage of document reference information on the PDA would have been obvious for purposes of transportation convenience at a remote location); and
- displaying, on the PDA, for the user, (per pending Claim 3) information corresponding to each document available for printing, the information being selectable such that selection of first information associated with a first document available for printing enables identification of the first document as a document to be printed at the network printer, (Figs. 1-5 &

paragraphs #0021-0054), (Examiner notes that it is well-known that a PDA is capable of displaying information, which information is selectable).

- wherein the step of enabling retrieval of printer information, (per pending Claims 4 & 15), comprises the steps of communicatively coupling a personal digital assistant (PDA) to the network printer, (Figs. 1-5 & paragraphs #0021-0054); and
- receiving printer information, (IP address – per pending Claim 6) from the network printer; and storing the printer information with the PDA, (Figs. 1-5 & paragraphs #0021-0054), (Examiner notes that as a PDA has a memory/storage capability, storage of printer information on the PDA would have been obvious for purposes of transportation convenience at a remote location).

Thus, Claims 2-4, 6, 11, 13, 15 & 18 are unpatentable over extensive consideration of the teachings of Fu.

7. Regarding Claims 5, 7-9, 12, 14, 16 & 20, Fu discloses a method, system and computer-readable medium for remotely printing a document, (Fig.1), wherein the step of facilitating printing of the document, (per pending Claims 5, 12 & 16), comprises the steps of:

- communicatively coupling a personal digital assistant (PDA) to an intranet, the intranet providing access to print information corresponding to documents available for printing, (Figs. 1-5 & paragraphs #0021-0054);

- receiving and storing an authorization code on the PDA, (per pending Claim 9), wherein the step of providing printer information comprises the step of the document retrieval system providing the authorization code to the intranet, (remote print request system), such that the user may be identified as being authorized access to request printing of a document at the network printer, (per pending Claims 8, 14 & 20), (Figs. 1-5 & paragraphs #0021-0054), (Examiner notes that as a PDA has a memory/storage capability, storage of an authorization code on the PDA would have been obvious for purposes of security and access authorization when transmitting/receiving from a remote location);
- (the PDA) providing (stored) printer information and information corresponding to a document to be printed, to the intranet, (Figs. 1-5 & paragraphs #0021-0054), (Examiner notes that as a PDA has a memory/storage capability and transmission means, storage of document and printer information on the PDA would have been obvious for purposes of transmitting/receiving from a remote location);
- (the PDA) retrieving print information (from the intranet) corresponding to the document to be printed at the network printer, (Figs. 1-5 & paragraphs #0021-0054), (Examiner notes that as a PDA has a memory/storage capability and transmission means, storage of document and printer information on the PDA would have been obvious for purposes of transmitting/receiving from a remote location); and



- (the PDA) communicating the print information to the network printer, (via the Internet – per pending Claim 7), such that the network printer prints the document, (Figs. 1-5 & paragraphs #0021-0054).

Thus, Claims 5, 7-9, 12, 14, 16 & 20 are unpatentable over extensive consideration of the teachings of Fu.

8. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over extensive consideration of US Patent Pub. No. US 2002/002965 A1 to Mandahl.

9. Regarding Claims 1, 10, 17 & 19, Mandahl discloses a method, system and computer-readable medium for remotely printing a document, (Fig.1), said method comprising the steps of:

- enabling retrieval of printer information corresponding to a network printer, the network printer being configured to communicatively couple with the Internet, the printer information including an IP address associated with the network printer, (Fig. 1-3 and paragraphs #0009-0045), (Examiner notes that on the Internet, a remote printer would obviously be identified and accessed through an IP address);
- enabling identification of a document to be printed, print information corresponding to the document being stored at a location remote from the network printer, (Fig. 1 & paragraph #0021-0022); and
- facilitating printing of the document at the network printer by communicating information to the network printer via the Internet, (Fig. 1 & paragraph #0021-0022), (Examiner notes that though Fig. 1 teaches a

Art Unit: 2143

print resource on an intranet, it would have been obvious in a networked system capable of transmitting to and from the Internet, to have several print resources available throughout the Internet connected to specialized print resource servers or other intranets at various locations for remote accessibility convenience).

Thus, Claims 1, 10, 17 & 19 are unpatentable over extensive consideration of the teachings of Mandahl.

10. Regarding Claims 2-4, 6, 11, 13, 15 & 18, Mandahl discloses a method, system and computer-readable medium for remotely printing a document, (Fig.1), wherein the step of enabling identification of a document, (per pending Claims 2, 11, 13 & 18), comprises the steps of:

- communicatively coupling a personal digital assistant (PDA) to an intranet, the intranet providing access to print information corresponding to documents available for printing, (Fig. 1-3 and paragraphs #0009-0045) ;
- receiving document reference information corresponding to each document available for printing, (Figs. 1-3 & paragraphs #0021-0022), (Examiner notes that as Mandahl teaches the transmission of word processing application information generally to a PDA, and as a PDA is capable of displaying a list of documents available for printing, it would have been obvious to transmit document information pertaining to more than one document for display on the PDA);

Art Unit: 2143

- storing document reference information with the PDA, (Figs. 1-3 & paragraphs #0009-0045), (Examiner notes that as a PDA has a memory/storage capability, storage of document reference information on the PDA would have been obvious for purposes of transportation convenience at a remote location);
- displaying, on the PDA, for the user, (per pending Claim 3) information corresponding to each document available for printing, the information being selectable such that selection of first information associated with a first document available for printing enables identification of the first document as a document to be printed at the network printer, (Figs. 1-3 & paragraphs #0009-0045), (Examiner notes that it is well-known that a PDA is capable of displaying information, which information is selectable).
- wherein the step of enabling retrieval of printer information, (per pending Claims 4 & 15), comprises the steps of communicatively coupling a personal digital assistant (PDA) to the network printer, (Figs. 1-3 & paragraphs #0009-0045), (Examiner notes that it would have been obvious, in a networked system capable of transmitting to and from the Internet, to have several print resources available throughout the Internet connected to specialized print resource servers or other intranets at various locations for remote accessibility convenience wherein a PDA could obviously couple to said remote print resource for purposes of obtaining and transmitting print information); and

- receiving printer information, (IP address – per pending Claim 6) from the network printer; and storing the printer information with the PDA, (Figs. 1-3 & paragraphs #0009-0045), (Examiner notes that as a PDA has a memory/storage capability, storage of printer information on the PDA would have been obvious for purposes of transportation convenience at a remote location).

Thus, Claims 2-4, 6, 11, 13, 15 & 18 are unpatentable over extensive consideration of the teachings of Mandahl.

11. Regarding Claims 5, 7-9, 12, 14, 16 & 20, Mandahl discloses a method, system and computer-readable medium for remotely printing a document, (Fig.1), wherein the step of facilitating printing of the document, (per pending Claims 5, 12 & 16), comprises the steps of:

- communicatively coupling a personal digital assistant (PDA) to an intranet, the intranet providing access to print information corresponding to documents available for printing, (Figs. 1-3 & paragraphs #0009-0045);
- receiving and storing an authorization code on the PDA, (per pending Claim 9), wherein the step of providing printer information comprises the step of the document retrieval system providing the authorization code to the intranet, (remote print request system), such that the user may be identified as being authorized access to request printing of a document at the network printer, (per pending Claims 8, 14 & 20), (Figs. 1-3 & paragraphs #0009-0045), (Examiner notes that as a PDA has a

Art Unit: 2143

- memory/storage capability, storage of an authorization code on the PDA would have been obvious for purposes of security and access authorization when transmitting/receiving from a remote location);
- (the PDA) providing (stored) printer information and information corresponding to a document to be printed, to the intranet, (Figs. 1-3 & paragraphs #0009-0045), (Examiner notes that as a PDA has a memory/storage capability and transmission means, storage of document and printer information on the PDA would have been obvious for purposes of transmitting/receiving from a remote location);
  - (the PDA) retrieving print information (from the intranet) corresponding to the document to be printed at the network printer, (Figs. 1-3 & paragraphs #0009-0045), (Examiner notes that as a PDA has a memory/storage capability and transmission means, storage of document and printer information on the PDA would have been obvious for purposes of transmitting/receiving from a remote location); and
  - (the PDA) communicating the print information to the network printer, (via the Internet – per pending Claim 7), such that the network printer prints the document, (Figs. 1-3 & paragraphs #0009-0045), (Examiner notes that it would have been obvious, in a networked system capable of transmitting to and from the Internet, to have several print resources available throughout the Internet connected to specialized print resource servers or other intranets at various locations for remote accessibility convenience

Art Unit: 2143

wherein a PDA could obviously couple to said remote print resource for purposes of obtaining and transmitting print information to be subsequently printed).

Thus, Claims 5, 7-9, 12, 14, 16 & 20 are unpatentable over extensive consideration of the teachings of Mandahl.

### ***Conclusion***


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Arrienne M. Lezak whose telephone number is (703)-305-0717. The examiner can normally be reached on M-F 8:30-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Wiley can be reached on (703)-308-5221. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Arrienne M. Lezak  
Examiner  
Art Unit 2143

AML

  
DAVID WILEY  
SUPERVISORY PATENT EXAMINER